AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) An electrical pressure washer comprising:
 - a housing including a water inlet port and a water outlet port;
- the housing containing an electrical motor that is adapted to pressurize water received through the water inlet port and to output pressurized water through the water outlet port;
- an application wand connected to the water outlet by a hose and having a nozzle for outputting the pressurized water;
 - the housing further including a diagnostic circuit and an indication panel;
- a power cord connected to the electrical motor for delivering AC power to the electrical motor and having a plug at a distal end;

wherein the diagnostic circuit includes a plurality of operational amplifiers, each operational amplifier determining the presence of a different operation condition of the pressure washer based on a comparison between a detected voltage drop over a return wire of the power cord and a corresponding reference voltage;

wherein the indication panel comprises a plurality of indicator lights that are connected to the diagnostic circuit, with each indicator light <u>each</u> corresponding to [[a]] <u>said</u> different operation condition and being adapted to be illuminated when the diagnostic circuit has determined that the respective operation condition is present.

- 2. (Previously Presented) The electrical pressure washer of claim 1, wherein one of the respective operation conditions is that the electrical motor is operational.
- (Previously Presented) The electrical pressure washer of claim 1, wherein one of the respective operation conditions is that a water pressure at the water input port is low.
- 4. (Previously Presented) The electrical pressure washer of claim 1, further comprising a chemical tank for storing a liquid detergent, and wherein one of the respective operation

conditions is that the pressure washer is in a mode of extracting the liquid detergent from the chemical tank for mixing with water received through the inlet port.

- 5. (Previously Presented) The electrical pressure washer of claim 1, wherein one of the respective operation conditions is that a thermal protection circuit of the electrical motor is open for protecting the electrical motor from overheating.
- 6. (Previously Presented) The electrical pressure washer of claim 1, wherein one of the respective operation conditions is that an AC voltage at the electrical motor is low.
- 7. (Previously Presented) The electrical pressure washer of claim 1, wherein the plug of the power cord includes a ground fault circuit interrupter.
- 8. (Previously Presented) The electrical pressure washer of claim 1, further including a sensing wire connecting the diagnostic circuit to the distal end of the power cord for detecting the voltage drop over the return wire of the power cord.

9. (Cancelled)

- 10. (Previously Presented) The electrical pressure washer of 8, further comprising a ground fault circuit interrupter, wherein the diagnostic circuit further detects whether a breaker of the ground fault circuit interrupter is open.
- 11. (Previously Presented) The electrical pressure washer of claim 10, wherein the diagnostic circuit further detects whether an AC voltage is present at the plug before the ground fault circuit interrupter.
- 12. (Previously Presented) An electrical pressure washer comprising:
 - a water inlet port for receiving water from a water source;
 - a water outlet port;

an electrical motor in fluid communication with the water inlet port and the water outlet port for pressurizing the water received through the water inlet port and pumping the pressurized water through the water outlet port;

an application wand connected to the water outlet by a hose and having a nozzle for outputting a pressurized water stream;

a power cord having a plug at a distal end for connecting AC power to the electrical motor;

a diagnostic circuit for detecting a voltage drop over the power cord and determining an operation condition based on the voltage drop;

an indication panel having at least one indicator light for indicating the operation condition;

a sensing wire connecting the diagnostic circuit to the distal end of the power cord for detecting the voltage drop over the power cord;

a ground fault circuit interrupter, wherein the diagnostic circuit further detects whether a breaker of the ground fault circuit interrupter is open;

wherein the diagnostic circuit further detects whether an AC voltage is present at the plug before the ground fault circuit interrupter; and

wherein the plug further includes a light emitter on an input end of the plug and an optical receiver connected to the sensing wire, the light emitter emitting light when an AC voltage is present at the plug.

- 13. (Previously Presented) The electrical pressure washer of claim 1, wherein the a plurality of indicator lights are light emitting diodes.
- 14. (Previously Presented) The electrical pressure washer of claim 13, wherein a subgroup of the light emitting diodes are wired in series.
- 15. (Previously Presented) The electrical pressure washer of claim 14, wherein each light emitting diode in the subgroup has a bypass transistor connected in parallel with said each light emitting diode for selectively diverting current away from said each light emitting diode.

16. (Previously Presented) The electrical pressure washer of claim 15, wherein the diagnostic circuit includes a backup capacitor for powering the diagnostic circuit in absence of AC power, and wherein the backup capacitor is connected in series to the light emitting diodes in the subgroup such that a current for energizing the light emitting diodes also charges the backup capacitor.

17 - 33 (Cancelled)

34. (Previously Presented) An electrical device comprising:

an electrical motor:

a sensing circuit:

a power cord having a plug at a distal end for connecting AC power to the electrical motor, the power cord having a Hot wire, a Return wire, a Ground wire, and a sensing wire connected to the sensing circuit for the sensing circuit to detect a voltage at the plug, wherein the plug further includes a light emitter on an input end of the plug and an optical receiver connected to the sensing wire, the light emitter emitting light when an AC voltage is present at the plug, and

wherein the plug of the power cord has a ground fault circuit interrupter,

wherein the sensing circuit further detects through the sensing wire whether a breaker of the ground fault circuit interrupter is open and whether an AC voltage is present at the plug before the ground fault circuit interrupter;

wherein the sensing circuit senses a voltage drop over the Return wire by detecting the voltage at the plug, the voltage drop being indicative of an amount of current drawn by the electrical motor; and

wherein the electrical device is a pressure washer comprising: a water inlet port for receiving water from a water source; a water outlet port, wherein the electrical motor is in fluid communication with the water inlet port and the water outlet port for pressurizing the water received through the water inlet port and pumping the pressurized water through the water outlet port; and an application wand connected to the water outlet by a hose and having a nozzle for outputting a pressurized water stream.

- 35. (Previously Presented) The electrical pressure washer of claim 34, wherein the sensing circuit detects an operation condition of the pressure washer based on the voltage drop, and wherein the pressure washer further includes an indication panel having at least one indicator light for indicating the detected operation condition.
- 36. (Previously Presented) The electrical pressure washer of claim 34, wherein the operation condition detected by the sensing circuit is that the electrical motor is operational.
- 37. (Previously Presented) The electrical pressure washer of claim 35, wherein the operation condition detected by the sensing circuit is that a water pressure at the water input port is low.
- 38. (Previously Presented) The electrical pressure washer of claim 35, wherein the pressure washer further includes a chemical tank for storing a liquid detergent, and wherein the operation condition detected by the sensing circuit is that the pressure washer is in a mode of extracting the liquid detergent from the chemical tank for mixing in the water stream.
- 39. (Previously Presented) The electrical pressure washer of claim 35, wherein the operation condition detected by the sensing circuit is that a thermal protection circuit of the electrical motor is open for protecting the electrical motor from overheating.
- 40 47 (Cancelled)